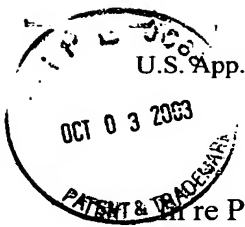


7/a



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re PATENT APPLICATION OF

Inventor(s): Charles Lerman

Group Art Unit: 2121

Application No.: 10/048,022

Confirmation No: 1233

Filed: January 28, 2002

Examiner: Unassigned

Title: *ANALYSIS AND PATTERN RECOGNITION IN LARGE, MULTIDIMENSIONAL DATA SETS USING LOW-RESOLUTION DATA GROUPING*

SUPPLEMENTAL PRELIMINARY AMENDMENT

October 3, 2003

Hon. Commissioner of Patents
Alexandria, VA 22313-1450

Sir:

Prior to prosecution on the merits and supplemental to the Preliminary Amendment filed January 28, 2002, please amend this application as follows herein.

RECEIVED

OCT 10 2003

Technology Center 2100

IN THE SPECIFICATION

Please delete the entire paragraph starting at page 37, line 22 and replace it with the following new paragraph:

a¹

Note on the output of score and sort clusters: The system inserts two new sheets after the data (see, e.g., **FIGURES 14C-14D**). The first added sheet contains two score columns: the scores generated by *both* of the auto modes (uncolored = zero and uncolored = average), but the one not selected will be gray. The scores are on a scale of “-100” to “+100”, where a score of “-100” means that all cells had the maximally negative score available, and a score of “+100” means that all cells had the maximally positive score available. The second added sheet has clusters sorted according to the *one* auto mode chosen when the tool ran. The routine offers to hide all columns that were *not* used in the scoring and sorting. The user can selectively unhide certain columns by using the “Edit:GoTo” menu option (or typing “CTRL-G”), enter the columns in the “Reference” box (for example, C:F), then pick the “Format:Column:Unhide” menu option.

Please delete the entire paragraph starting at page 46, line 16 and replace it with the following new paragraph:

a²

The case of P=3 and C=3 is presented below in its entirety for illustration. **FIGURE 16F** shows artificial data and processing for twenty seven (27) hypothetical compounds. The “percent inhibition” columns represent assay “data.” If one defines three groups by breakpoints at 33% and